Page 1 of 6 ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637 FORM PTO-1449 APPLICANT GREENE et al. INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** June 6, 1995 1812 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE INITIAL AA AB AC AD ΑE ΑF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS TRANSLATION WO 94/13808 06/23/94 WIPO MOP AL1 WIPO WO 94/09137 04/28/94 Yes MOP AM1 No EP 0 585 939 03/09/94 Europe Yes MOD AN1 No WO 91/09045 06/27/91 WIPO Yes MOP A01 No Yes AΡ No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Aggarwal, B. B. and K. Natarajan, "Tumor necrosis factors: Developments during the last decade," 1 Eur. Cytokine Netw. 7(2):93-124 (April-June 1996) MOP Camerini, D. $et\ all$, "The T Cell Activation Antigen CD27 Is a Member of the Nerve Growth AS 1 Factor/Tumor Necrosis Factor Receptor Gene Family," J. Immunol. 147(9):3165-3169 (1991) MOP MDP Dürkop, H. et al., "Molecular Cloning and Expression of a New Member of the Nerve Growth Factor 1 . Receptor Family That Is Characteristic for Hodgkin's Disease," Cell 68:421-427 (1992) DATE CONSIDERED 9-10-97 EXAMINER MICHAEL PAK EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 2 of 6 ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637 FORM PTO-1449 APPLICANT GREENE et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 6, 1995 1812 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE NAME CLASS INITIAL SUB-CLASS | FILING DATE AΑ AB \$... AC AD ΑE ΑF AG ΑН ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER COUNTRY INITIAL DATE CLASS SUB-CLASS TRANSLATION Yes AL No Yes AM No Yes ΑN No Yes ΑO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Engelmann, H. et al., "Two Tumor Necrosis Factor-binding Proteins Purified from Human Urine. Evidence for Immunological Cross-reactivity with Cell Surface Tumor Necrosis Factor Receptors," AR 2 MOP J. Biol. Chem. 265(3):1531-1536 (1990) Himmler, A. et al., "Molecular Cloning and Expression of Human and Rat Tumor Necrosis Factor Receptor Chain (p60) and Its Soluble Derivative, Tumor Necrosis Factor-Binding Protein," DNA and AS 2 MOP Cell Biol. 9(10):705-715 (1990) Hohmann, H.-P. et~al., "Two Different Cell Types Have Different Major Receptors for Human Tumor Necrosis Factor (TNF α)" J.~Biol.~Chem.~264(25):14927-14934 (1989) 2 DATE CONSIDERED 9-10-93

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

EXAMINER

MICHAGI PAK

Page 3 of 6

		FOR	M PTO-1449		ATTY. DOCKET NO. 1488.0710001 APPLICATION NO. 08/469,637 APPLICANT						
	INFORMAT	ION D	ISCLOSURE STATE	MENT	GREENE et al.						
					FILING DATE June 6, 1995						
				U.S.	PATENT DOCUMENTS						
EXAMINER INITIAL		DO	CUMENT NUMBER	DATE	NAME	CLA	\ss	SUB-CLASS	FILING DATE		
	AA										
	AB			æ.							
	AC		•								
	AD				918						
	AE	_		<i></i>				<u></u>			
	AF				(3)	-					
	AG	_		179	1						
	AH			THE STATE OF THE S	<u></u>	-					
<u> </u>	AI			7	188	-					
	AJ AK	+-			PADEMARKO						
	1 AK			FORE I	GN PATENT DOCUMENTS			I	<u></u>		
EXAMINER											
INITIAL		DC	CUMENT NUMBER	DATE	COUNTRY	CL/	ASS	SUB-CLASS	TRANSLATION		
	AL					_			Yes No		
	АМ								Yes No		
	AN								Yes No		
	AO								Yes No		
	AP								Yes No		
	AP		OTHER (Including Author	I , Title, Date, Pertinent Pages	etc	,		l NO		
mol	AR	3	Hsu, K. C.	and M. V. Chao, '	"Differential Expression and Li imeric Mutants," J. Biol. Chem.	gand B	inding	Properties ()-16436 (199	of Tumor 3)		
mop	AS	3	Itoh, N. <i>et</i> Mediate Apo	Itoh, N. et al., "The Polypeptide Encoded by the cDNA for Human Cell Surface Antigen Fas Can Mediate Apoptosis," <i>Cell 66</i> :233-243 (1991)							
pop	AT	3	Johnson, D. et al., "Expression and Structure of the Human NGF Receptor," Cell 47:545-554 (1986)								
EXAMINER	MLCH	161	PAL			DATE	CONSIDE	ERED 9-10	-27		
EXAMINER: In	itial ii	ref	erence consider	ed, whether or no	ot citation is in conformance w	ith MF	PEP 609.	Draw line	through		

Page 4 of 6

					ATTY. DOCKET NO. APPLICATION NO. 08/469,637					
		FORM	PTO-1449		APPLICANT					
1	NFORMAT	ION DI	SCLOSURE STATE	EMENT	GREENE et al.					
					FILING DATE June 6, 1995		GROUP 1812	<u> </u>		
				U.S.	PATENT DOCUMENTS					
EXAMINER INITIAL	ŀ	DOC	UMENT NUMBER	DATE	NAME	CLA	SS	SUB-CLASS	FILING DATE	
	AA									
	АВ									
	AC			Silve Ser						
	AD				AIP.					
	AE				E. A					
	AF				<u> </u>					
	AG				AN 23 1997 0					
	AH	_		12	<u> </u>			_		
	AI	_		13				<u> </u>		
	AJ			<u> </u>	C RAMENARY			<u> </u>		
	AK				PAADEMAN OT					
EXAMINER	1			FORE	GN PATENT DOCUMENTS	<u>-</u>		1		
INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CLA	ss	SUB-CLASS	TRANSLATION	
	AL								Yes No	
									Yes	
	AM								No Yes	
	AN								No	
	AO								Yes No	
	AP							}	Yes No	
		•	OTHER (Including Author	, Title, Date, Pertinent Page	es, etc.)		•	
мор	AR	4	Loetscher, Receptor,"	H. et al., "Molec Cell 61:351-359 (cular Cloning and Expression (1990)	of the H	uman 55	kd Tumor Ne	ecrosis Factor	
WDP	AS	4	Mallett, S. $et\ al$., "Characterization of the MRC OX40 antigen of activated CD4 positive T lymphocytes - a molecule related to nerve growth factor receptor," EMBO J. $9(4)$:1063-1068 (1990)							
Gam	AT	Nophar, Y. et al., "Soluble forms of tumor necrosis factor receptors (TNF-Rs). The cDNA for the type I TNF-R, cloned using amino acid sequence data of its soluble form, encodes both the cell surface and a soluble form of the receptor," EMBO J. 9(10):3269-3278 (1990)								
EXAMINER	nici	hAG.	L PAK			DATE	CONSID	ERED 9-10)-9.7	
EXAMINER: Ini	itial if	refer	ence consider	ed, whether or no	ot citation is in conformance	with MP	EP 609.	Draw line	through	

Page 5 of 6 ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637 FORM PTO-1449 APPLICANT GREENE et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 6, 1995 1812 U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE INITIAL CLASS SUB-CLASS | FILING DATE AA AB AC AD JAN 2 3 1997 ΑE ΑF AG AΗ ΑI ΑJ AK FOREIGN PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER INITIAL DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes ΑL Yes ΑM No Yes ΑN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Pfeffer, K. et al., "Mice Deficient for the 55 kd Tumor Necrosis Factor Receptor Are Resistant to AR 5 MOP Endotoxic Shock, yet Succumb to L. monocytogenes Infection, " Cell 73:457-467 (1993) Piguet, P. F. $et\ al.$, "Evolution of collagen arthritis in mice is arrested by treatment with anti-MOP tumour necrosis factor (TNF) antibody or a recombinant soluble TNF receptor, Immunol. 77:510-514 5 (1992)Radeke, M. J. $et\ al.$, "Gene transfer and molecular cloning of the rat nerve growth factor receptor," Nature 325:593-597 (1987) DATE CONSIDERED 9-10-97 EXAMINER PAL Messel

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 6 of 6

					ATTY. DOCKET NO. APPLICATION NO. 08/469,637				<u>-</u>		
			PTO-1449		APPLICANT GREENE et al.						
]	NEORMAT	ION DI	SCLOSURE STATE	EMENT	FILING DATE GROUP June 6, 1995 1812						
				U.S.	PATENT DOCUMENTS				T		
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLA	99	SUB-CLASS	FILING DATE		
INTINE	AA	1	OHENT NOTIBER	4.7		- OLA		JOB CEASS	TIETRO DATE		
	AB			:	610						
	AC				10.61						
	AD			<u> </u>							
	AE	_		<i>j</i> .	JAN 2 3 1997 6						
	AF	-		•	1						
	AG	-		1							
	AH				TRADEMARK OF						
	IA LA	_			1000	_					
	AK				· · · · · · · · · · · · · · · · · · ·	\dashv					
·		ı		FORE I	GN PATENT DOCUMENTS						
EXAMINER											
INITIAL	-	DOC	UMENT NUMBER	DATE	COUNTRY	CLA	ss	SUB-CLASS	TRANSLATION		
	AL								Yes No		
	АМ					'			Yes No		
	AN								Yes No		
	AO					8			Yes No		
	AP								Yes No		
			OTHER ()	Including Author	, Title, Date, Pertinent Pages	etc.	`		NO		
pap	AR	<u>6</u>	Smith, C. A	. et al "T2 Ope	en Reading Frame from the Shope Biophys. Res. Comm. 176(1):335-	Fibrom	na Virus	s Encodes a	Soluble Form of		
MPP	AS	<u>6</u>	Stamenkovic receptor and	Stamenkovic, I. et al., "A B-lymphocyte activation molecule related to the nerve growth factor receptor and induced by cytokines in carcinomas," EMBO J. $8(5)$:1403-1410 (1989)							
MP	AT	<u>6</u>	Van Ostade, activity on	Van Ostade, X. et ∂I ., "Human tumor necrosis factor mutants with preferential binding to and activity on either the R55 or R75 receptor," Eur. J. Biochem. 220(3):771-779 (March 1994)							
EXAMINER M	1CH	46L	PAK			DATE	CONSIDE	RED 9-1	0-97		
EXAMINER: In	itial if	refer	ence consider		ot citation is in conformance wade copy of this form with next			Draw line	through		

Page 1 of 5 ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637 FORM PTO-1449 APPLICANTS GREENE et al. INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE June 6, 1995 1812 U.S. PATENT DOCUMENTS **EXAMINER** CLASS INITIAL DOCUMENT NUMBER DATE NAME SUB-CLASS FILING DATE 435 240.1 03/07/1995 05/10/1990 MBP AA1 5,395,760 Smith et al. 530 350 MOP AB1 5,464,938 11/07/1995 08/18/1994 Smith et al. AC AD ΑE AF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-CLASS TRANSLATION Yes AL No Yes AM No Yes AN No Yes AO No Yes AP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) wffo, A.A. et al., Database A Genesoq24 on MASPAR, Accession No. R38899 (1993). Aslanidis, C., Database EMBL newS on MASPAR, Accession No. X75491 (March 1994). Chinnaiyan, A.M. et al., "Signal Transduction by DR3, a Death Domain-Containing Receptor Related Z to TNFR-1 and CD95," Science 274:990-992 (1996). MPP EXAMINER DATE CONSIDERED 9-10-92 MICHAEL EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 2 of 5 ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637 FORM PTO-1449 APPLICANTS GREENE et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP June 6, 1995 1812 U.S. PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER DATE NAME INITIAL **CLASS** SUB-CLASS FILING DATE AA AB -AC AD ΑE ΑF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes AL No Yes AM No Yes No Yes AO No Yes AΡ No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Feinstein, E. et al., "The death domain: a module shared by proteins with diverse cellular AR 8 functions," TIBS 20:342-344 (September 1995). MPP Genexpress, Database EMBL/GenBank/DDBJ on MASPAR, Accession No. 238433 (October 1994). THANK! MAR Glasgow, E. and Schechter, N., Database EMBL-new3 on MASPAR, Accession No. L23876 (1993). EXAMINER DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

MICHAEL

Page 3 of 5

			-, , , , , , , , , , , , , , , , , , , 		ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637			1090 3 01 3		
		FORM PTO-1449			APPLICANTS					
	INFORMATI	ON DISCLOSURE ST	ATEMENT		GREENE et al. FILING DATE GROUP June 6, 1995 1812					
				U.S. F	PATENT DOCUMENTS	····	11012			
EXAMINER								Ţ		
INITIAL	_	DOCUMENT NUMBE	R DATE		NAME	CL	ASS	SUB-CLASS	FILING DATE	
	AA			-				 		
	AB	-								
	AC AD	<u> </u>						 		
	AE							 		
	AF				-					
	AG						 	<u> </u>		
	AH				·· · <u>- ··-</u>					
	AI									
	AJ									
	AK									
				FOREIGN	PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBE	R DATE	(COUNTRY		ASS	SUB-CLASS	TRANSLATION	
	AL	·							Yes No	
	АМ				•				Yes No	
	AN								Yes No	
	AO								Yes No	
	AP		"						Yes No	
-		OTHER	Cincluding A	uthor	Title, Date, Pertinen	t Pages etc	.)		1 80	
	AR				EST STS on MASPAR, Acc			uly 1995).		
	A\$	2 Hudson, T., Database EST-STS on MASPAR, Accession No. G11923 (October 1995)								
MOP	AT	Muzio, M. et al., "FLICE, A Novel FADD-Homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," Cell 85:817-827 (1996).								
EXAMINER	N. L.C.HIAL	L PAK				DATE	CONSID	ERED 9-10-	97	
EXAMINER: I	nitial if	reference consi			citation is in confor	mance with M	PEP 609	. Draw line	through	

									Page 4 of 5	
					ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637					
	INCODMATI		PTO-1449 SCLOSURE STATI	EMENT	APPLICANTS GREENE et al.					
	INFORMALI	ION DIS	SCLUSURE STATI	<u>EMENI</u>	FILING DATE June 6, 1995		GROUP 1812			
				U.	S. PATENT DOCUMENTS					
EXAMINER		1	MENT WINDER				•••			
INITIAL	AA	DOCK	JMENT NUMBER	DATE	NAME	CL	ASS	SUB-CLASS	FILING DATE	
	AB	+						<u> </u>		
	AC	-						 		
	AD	1						1		
	AE									
	AF									
	AG									
	AH							ļ		
	AI			· · · · · · · · · · · · · · · · · · ·					 	
	AJ	_	•					<u> </u>		
	AK				· · · · · · · · · · · · · · · · · · ·					
EVANIUED		-		FORI	EIGN PATENT DOCUMENTS			1	<u> </u>	
EXAMINER INITIAL		DOCL	JMENT NUMBER	DATE	COUNTRY	CL	ASS	SUB-CLASS	TRANSLATION	
	AL								Yes No	
	AM								Yes No	
	AN								Yes No	
	AO								Yes No	
		1						-	Yes	
	AP		07,1150 41						No	
			OTHER (Including Author	or, Title, Date, Perti	nent Pages, etc	.)			
	-AR	10	Zauner, W.	<i>et al</i> ., Databas	e EMBL-new3 on MASPAR,	Accession No.	760370,	x60371, x605	550 (1992).	
	-	<u> </u>								
	AS	10	Internation	al Search Repol 003 mailed Jar	t issued by the internouncy 21, 1997.	national Searchi	ag-Autho	r ity for App	I-No.	
			<u> </u>	voz, marted um	MILY EI, 1997					
						·				
	AT 10 International Search Report issued by the International Searching Authority for Apply No.									
		-	-PCI/U396/16	849, mailed Mar	261-26, 1997 .					
EXAMINER	MICIS	all	PAIC			DATE	CONSID	ERED 9-10	97	
EXAMINER:	Initial if	refer	ence consider	ed, whether or	not citation is in cor	nformance with M	PEP 609.	Draw line	through	
citation if	not in col	rormar	nce and not co	onsidered. Inc	lude copy of this form	with next comm	unicatio	n to Applica	nt.	

Page 5 of 5

					ATTY. DOCKET NO. APPLICATION NO. 1488.0710001 08/469,637						
		FORM	PTO-1449		APPLICANTS						
1	NFORMAT	ION DIS	SCLOSURE STAT	<u>EMENT</u>		GREENE et al.					
					FILING DATE June 6, 1995		GROUP 1812		······················		
				U.S.	PATENT DOCUMENTS						
EXAMINER		200	MENT NUMBER	DATE	MANE		400	01/2 01 400	511 1NO DATE		
INITIAL	AA	BOCI	UMENT NUMBER	DATE	NAME	I CL	ASS	SUB-CLASS	FILING DATE		
	AB	_				·····					
	AC	+	· · · · · · · · · · · · · · · · · · ·								
	AD							 			
-	AE	-	· - -								
	AF	1									
	AG										
	АН										
	ΑI										
	LA										
	AK										
				FORE I	GN PATENT DOCUMENTS						
EXAMINER											
INITIAL		DOC	UMENT NUMBER	DATE	COUNTRY	CL	ASS	SUB-CLASS	TRANSLATION		
	AL								Yes No		
	АМ	ŀ							Yes		
	AM	+-						 	No Yes		
	AN	-						<u> </u>	No		
	AO	_							Yes No		
	AP								Yes No		
			OTHER (Including Author	, Title, Date, Pertinent	Pages, etc	.)	•	•		
		I	T		<u> </u>						
			l						•		
	_AR	11-	PCI/US96/18	al Search Report 540, mailed March	issued by the Internation 18. 1997.	al Searchi	ng Autho	rity for Ap	pl. No.		
	 -	ļ	.								
	l										
	AS										
	AS										
	1										
			 								
	İ										
	AT										
			<u> </u>	-							
EXAMINER	ICH4	EL	PAIC			DATE CONSIDERED 9-10-97					
EXAMINER: In	itial if	refer	ence consider		ot citation is in conforma	ance with M	PEP 609.	. Draw line	through		

.

74